TPA 301R

TILING PRODUCTS AUSTRALIA

Technical Data Sheet ISSUED MARCH 2020

PRODUCT DESCRIPTION

TPA 301R is a cost effective, flexible, powdered adhesive for wall and floor applications. Suitable to use over concrete, cement render, screeds, fibrous cement sheeting, plasterboard and suitable **WPA** waterproofing membranes†. It is suitable for internal and external* applications including bathrooms, toilets, laundries, kitchens, decks and verandas. **TPA 301R** is suitable for most types of moisture stable tiles in domestic and general tiling applications.

ADVANTAGES

- Suitable for a wide range of tiles
- Cost effective
- Excellent trowel-ability and grab
- Flexible

USES

All moisture stable tile types. Suitable tiles include porcelain, ceramic, terracotta, terrazzo, glass and stone.

- General tiling
- Internal and External*
- Concrete
- Render and screeds
- Fibre Cement
- Plasterboard
- WPA waterproofing membranes†
- Wall and Floor

DIRECTIONS FOR USE

Read and understand the Safety Data Sheet before using this product.

SURFACE PREPARATION

Make sure the substrate has been correctly installed according to relevant standards and manufacturer's recommendations.

Allow for minimum curing time for screeds (7 days) and concrete (28 days).

Remove all materials that may prevent or reduce adhesion. These include oils, grease, wax, release agents, curing compounds dust and any loose material.

Ensure surface is sound. All weak or friable material must be removed.

Check the porosity of the cleaned surface by applying a small amount of water. It will be easily absorbed if porous and bead on the surface if not. Porous substrates should be primed with **WPA 360**.

Most non-porous surfaces should be primed with **WPA 160** Non-Porous Primer.

Contact the Bayset Technical Department before commencing tiling if there is any doubt about required or suitable preparation.

MIXING

20kg powder mixes into 5.5-6 litres of water

1. Add water to bucket.
2. Mix powder into water with mechanical stirring.
3. Mix until smooth.
4. Allow to stand for 2 minutes and mix again before using.

Note: The paste can "wet out" during mixing so make sure that it is mixed sufficiently before adding more liquid. Do not add more liquid after the initial mixing. Discard when the product stiffens in the bucket. Use a drill with suitable mixing paddle designed for the task and do not mix by hand.

APPLICATION

Apply to the prepared substrate using a notched trowel. Use a 6mm notch for tiles up to 150 x150mm, a 10mm notch for up to 250x250mm and a 12mm notch for 300x300mm tiles. Tiles 400x400mm and larger should be back-buttered in addition to using a 12mm notched trowel.

Press tiles firmly into adhesive before it skins.

Apply only up to $1M^2$ at a time to avoid skinning. If skinned, re-spread to expose "wet" adhesive. Discard any material that has hardened before use. Adhesive contact coverage should be in accordance with AS 3958.1.

Allow adhesive to set adequately before grouting.

POT LIFE

3 hours at 22°C and 50% relative humidity.

COVERAGE

On site coverage will vary as it is dependent on a large number of variables. These include but are not limited to: application technique, substrate texture, wastage, trowel angle, trowel wear, contact coverage and flatness. As such the following coverage is intended as a guide only. It is advised that comparisons between products are based on the mixed volume.

When mixed bag yields approximately 17-18 litres

Approximate Coverage (10mm trowel)

M^2 per bag - 7.0 M^2

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COMPLIANCE WITH AUSTRALIAN STANDARDS
C1S1
AS ISO 13007

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GROUTING

Use a suitable proprietary cementitious or epoxy grout after the tiles are firm. Modify grout with an appropriate admixture when tiling is over a flexible substrate or when improved water resistance is required.

CLEANING

Remove using a wet cloth before the product hardens. If allowed to set it must be removed mechanically.

PERFORMANCE DATA AND CHARACTERISTICS

- Appearance ....Grey
- Packaging.. 20kg Bag
- Mixed S.G..1.45g/cc
- VOC...<1g/L
- Mixing Ratio ....5.5-6.0 L / 20kg
- Pot Life..3 hrs @ 22°C, 50% RH
- Open Time.. >20 mins
- Set Time .... <24 hrs @ 22°C, 50% RH
- ASISO 13007..C1S1

IMPORTANT NOTES

- Always read the entire Product Technical Data Sheet and Safety Data Sheet (SDS) before using.

- Only tile surfaces that are suitable. If in doubt check with substrate manufacturer.

- When tiling directly onto waterproofing membranes check to ensure compatibility. If not already approved by Bayset in writing, additional compatibility tests may be required.

- If considering tiling over paint it must be well bonded, clean and sound. Abrade and clean enamel paints. Prime with **WPA 160** before tiling.

- Use only when substrate and ambient temperatures are between 5 and 35°C.
  Do not use in windy or very low humidity conditions.

- This product is not suitable for use with moisture sensitive materials.

- Not suitable for continuous immersion (e.g. pools or water features).

- Not designed for direct bonding to plastic or metal. Special surface preparation may be required.

- When tiling walls do not exceed 2.7M and always check that it will support the intended weight.

- Do not use to tile directly onto timber, plywood, particleboard, MDF or Masonite.

- Contact the Bayset Technical Department for advice before work starts if substrates or tiles are unusual or non-traditional or if there is any uncertainty regarding suitability or preparation.

* External and wet areas must have adequate falls and drainage. Do not allow water to pool or pond.

† Suitable **WPA** waterproofing membranes include:
- **WPA 200**
- **WPA 230UV**
- **WPA 400**
- **WPA 500**
- **WPA 500LV**
- **WPA Rapid**

SETTING TIME

<24 hours at 22°C and 50% relative humidity.

Pot life and setting times will be influenced by ambient conditions. Shorter pot life and setting times should be expected in warm or dry conditions. Extra care should be taken in warm or dry conditions to ensure the adhesive has not stiffened significantly before the tiles are applied. Ensure that the open time has not been exceeded. If in doubt discard unused product and prepare a fresh batch.

STORAGE AND SHELF LIFE

12 months when stored off the ground in a cool, dry weatherproof environment.

PRECAUTIONS

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Tiling Products Australia products products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit www.bayset.com.au for copies.

For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.

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WARRANTY CONDITIONS

Bayset Pty Ltd trading as Tiling Products Australia (Bayset) offers a limited warranty in respect of this product, subject to certain terms and conditions set out in the warranty documentation which has been made available at www.bayset.com.au. Please contact Bayset directly to obtain a copy of the warranty documentation relevant to this product.

DISCLAIMER

The technical information and application advice given in this Technical Data Sheet is based on the present state of Bayset Pty Ltd's best scientific and practical knowledge and is intended to give a fair description of the product and its capabilities. As the information contained herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness, either expressed or implied, is given other than those required by law. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the product's suitability for a particular application and that the product is not used beyond its physical limitations. The user is responsible for checking the suitability of products for their intended use.

*NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Waterproofing Products Australia either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Waterproofing Products Australia, are responsible for carrying out procedures appropriate to a specific application.

DOCUMENT CONTROL	
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Technical Data Sheets are subject to change without notice. For latest revision, check our website at www.bayset.com.au

This is a CONTROLLED document under TPA's Quality System.